

Europäisches Patentamt

European Patent Offic

Office européen des brevets



EP 0 818 701 A3

(12)

## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 16.09.1998 Bulletin 1998/38 (51) Int. Cl.6: G02B 27/01

(43) Date of publication A2: 14.01.1998 Bulletin 1998/03

BEST AVAILABLE COPY

(21) Application number: 97111557.1

(22) Date of filing: 08.07.1997

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE

(30) Priority: 09.07.1996 JP 179087/96 09.07.1996 JP 179074/96 22.07.1996 JP 192232/96 17.12.1996 JP 336752/96 08.01.1997 JP 1391/97

(71) Applicants:

Harness System Technologies Research, Ltd.
 Nagoya-shi, Aichi (JP)

SUMITOMO WIRING SYSTEMS, Ltd. Yokkaichi-shi, Mie (JP)

 SUMITOMO ELECTRIC INDUSTRIES, LTD. Osaka-shi, Osaka 541 (JP) (72) Inventors:

 Yasuyo, Matsumoto, Hamess Sys. Tech. Res. Ltd. Nagoya-shi, Aichi (JP)

 Nobuaki, Kolde, Hamess Sys. Tech. Res. Ltd. Nagoya-shi, Aichi (JP)

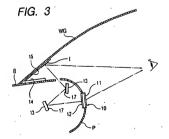
 Nishiura Yozo, Hamess Sys. Tech. Res. Ltd. Nagova-shi, Aichi (JP)

Kensaku, Takada,
 Harness Sys. Tech. Res. Ltd.
 Nagova-shi, Aichi (JP)

(74) Representative: Winter, Brandl & Partner Patent- und Rechtsanwaltskanzlei Alois-Steinecker-Strasse 22 85354 Freising (DE)

### (54) Display device

(57) A display device for a transportation includes: a display unit displaying a display image on front and rear face sides, the display images displayed on the rear face side being in mirror image relationship with each other; and an optical member for inverting the display image displayed on the rear face side, wherein the display image displayed on the front face side is directly seen by a driver and the display image displayed on the rear face side is inverted by the optical member, so as to see in the same direction of the display image displayed on the front face side. The above display unit may be constituted by a light source having plural color spectra; an attenuation filter in which a transmittance for light emitted from the light source can be partly changed by an external signal; and a transparent light guide plate which guides light emitted from the light source to at least one of front and rear faces of the attenuation filter.





# EUROPEAN SEARCH REPORT

Application Number P 97 11 1557

	DOCUMENTS CONSIDERI	D TO BE RELEVANT	Relevant	CLASSIFICATION OF THE	
Category	Citation of document with indica of relevant passages	ion, where appropriate,	to claim	APPLICATION (Int.CL6)	
X	WO 89 03059 A (FLIGHT 1989 * page 5, line 34 - page 9, line 23 - 1 * page 15, line 23 - * page 17, line 3 - p figure 8 *	age 6, line 9 * ine 28; figure 1 * line 26: figure 6 *	14,15	G02827/01	
x	WO 89 02611 A (HUGHES 1989 * page 8, line 1 - li	ne 5 *	16-18		
	* page 8, 11he 10 - 1,2,5 * EP 0 200 407 A (NIPPO	Time 31, Tigures	19-21		
X	1986 * column 1, line 29 * column 2, line 27 * column 6, line 40	- line 50; figure 9 *		TECHNICAL FIELDS SEARCHED (Inf.Cl.6)	
Y	Figure 8 *  EP 0 340 485 A (KANT 1989	0 SEIKI) 8 November	1	,	
A	* column 1, line 16	- line 33; figure 1 ' RISCHE MOTOREN WERKE		3	
ľ	19 April 1989 * column 3, line 15	- line 20; figure *	1-3		
A	PATENT ABSTRACTS OF vol. 11, no. 84 (P- 1987 -& JP 61 238014 A * abstract; figures	(NISSAN)			
-	The present search report has	peen drawn up for all claims		Examiner	
Place of scalch		15 July 1998		Soulaire, D	
ORI 150	CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone Y: particularly relevant if combined with and document of the same category A: technological background O: non-written disclosure P: intermediate document	E : earlier pett after the file ther D : document L : document	ng date oxed in the appli oxed for other re	cation .	



	_				_
	OCUMENTS CONSIDERED T	O BE RELEVANT	Relevant	CLASSIFICATION OF THE APPLICATION. (Int.Cl.6)	-
0	Citation of document with indication, w	here appropriate.	to claim	APPLICATION: (INCC)	7
degory	Ottation of document with a comment of relevant passages	1006	1		
-	W0 96 19746 A (SILISCAPE) * page 13, line 3 - line * page 29 line 29 - page	27 June 1995 23; figure 28 *	1		
			3,4,6		- 33
A	EP 0 005 245 A (HUGHES A November 1979	oo. claim 4:			
	November 1979 * page 3, line 16 - line figure 1 *	22, 010	1.		
A	FR 2 386 093 A (SOCIETE D'EQUIPEMENTS POUR LA NA	FRANCAISE VIGATION AERIENNE	5,7		
	27 October 1978	paragraph 2 *			
			8		
A	DE 17 72 014 A (BENDIX) * claims 1,4 *				
1.	EP 0 370 640 A (SMITHS	INDUSTIES) 30 May	y \9	TECHNICAL FIELDS	7(6)
A	1990 * abstract *			SEARCHED (Int.)	
	FR 2 227 544 A (HUGHES	AIRCRAFT) 22	10		
A	FR 2 227 544 A (HUGHES) November 1974	5 line 22:	1		
1	I * name 4. Title Ji	ige 3, Time	1		1
- 1			13		1
A	WO 86 05648 A (SCHIFF	man, co			
	1986 * claim 1 *		. \		1
-	1	ER) 16 December	1982 22	1	1
A	DE 31 20 601 A (TISC) * page 7, paragraph	3; figures 3-5		1	1.
- 1			1	1	1
			1	1	1
1			1.		1
- 1			1	1	1
1		n daime	-		
	The present search report has	Deen drawn up for all claims	the search	Examples	1
	Place of search	15 July 19	998	Soulaire, D	
(60)	THE HAGUE	7.00	ory or principle u	inderlying the invention ment, but published on, or	
6 6	CATEGORY OF CITED DOCUMENTS	ent D: do			
5	X: particularly relevant if taken alone Y: particularly relevant if combined with an document of the same category to the barker pund			ne patent family, corresponding	,
(P04CO1)	document of the same  A technological background  O non-written disclosure		cument		
	O : non-writish discurrent  P : intermedute document				
	w L				



# BEST AVAILABLE COPY

pplication Numbe

EP 97 11 1557

AIMS INCURRING FEES
e present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims lees have
been paid, namely claim(s):
No claims tees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
ACK OF UNITY OF INVENTION
he Search Division considers that the present European patent application does not comply with the quirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report here down up for all claims
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time first. The present European sear report has been drawn up for those parts of the European patent application which relate to the inventifiest membroded in the claims, namely claims:
inst the fluorica in the
• 



# LACK OF UNITY OF INVENTION SHEET B

Application Numbe

EP 97 11 1557

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-15

Display device comprising, in particular, a display unit displaying images on rear and front side thereof

2. Claims: 16-18

Display device involving, in particular, a color filter

3. Claims: 19-22

Display device comprising, in particular, a light guide

BEST AVAILABLE COPY